

ABSTRACT OF THE DISCLOSURE

An image sensor includes a substrate containing photosensitive areas; an insulator spanning the substrate; and a first and second layer of a multi-layer metalization structure wherein the first layer forms the light shield regions over portions of the photosensitive area as well as forming circuit interconnections and barrier regions to prevent spiking into the substrate or gates at contacts in the non-imaging area, and the second layer spanning the interconnections and barrier regions of the first layer only over the non-imaging area.

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